

DEC 21 2004


PTO/SB/21 (09-04)

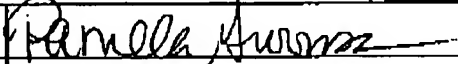
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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	10/001,844	
	Filing Date	11/18/2001	
	First Named Inventor	C. Frank Bannan	
	Art Unit	1635	
	Examiner Name	James Schultz	
Total Number of Pages in This Submission	7	Attorney Docket Number	ISPH-0617

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement  <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	Isis Pharmaceuticals, Inc.		
Signature			
Printed name	Colleen McKiernan, Ph.D.		
Date	12/21/2004	Reg. No.	48,570

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Attorney Docket No.: ISPH-0617  
Inventors: Bennett et al.  
Serial No.: 10/001,844  
Filing Date: November 16, 2001  
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RESPONSE UNDER 37 CFR 1.116  
EXPEDITED PROCEDURE  
EXAMINING GROUP 1635

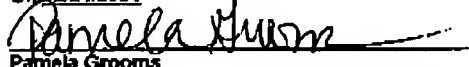
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Attorney Docket No.: ISPH-0617  
Inventors: Bennett and Cowser  
Serial No.: 10/001,844  
Filing Date: November 16, 2001  
Examiner: James Schultz  
Customer No.: 32862  
Group Art Unit: 1635  
Confirmation No.: 2097  
Title: Antisense Modulation of SHH  
Expression

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Reply under 37 C.F.R. § 1.116

This is a reply to the Office Action mailed September  
27, 2004 setting a three (3) month statutory period for

✓ . Attorney Docket No.: ISPH-0617  
Inventors: Bennett et al.  
Serial No.: 10/001,844  
Filing Date: November 16, 2001  
Page 2

response. Please enter the following amendments and remarks into the record.

The Amendments to the Claims are reflected in the listing of claims which begins on page 3.

Remarks begin on page 5.